

Serial No.: 10/797,394
Reply to Office communication of May 11, 2006

RD-27,764-3

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Original) A composition, comprising a polyorganosiloxane and an admixed sterically hindered amine light stabilizer (HALS) wherein the polyorganosiloxane is free from alternating cyclic hydrocarbon residues.

Claim 2. (Currently amended) The composition of claim 1, wherein said polyorganosiloxane comprises moieties of the formula $\{(\text{CH}_3)_2\text{SiO}\}$ $\{(\text{CH}_3)_2\text{SiO}\}$ and a terminal trimethylsiloxane unit $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$.

Claim 3. (Currently amended) The composition of claim 1, wherein said polyorganosiloxane comprises $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ units in an amount in a range between of from about 0.7 mol% and to about 6.0 mol%.

Claim 4. (Currently amended) The composition of claim 1, wherein said polyorganosiloxane comprises $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ units in an amount in a range between of from about 2.0 mol% and to about 5.5 mol%.

Claim 5. (Currently amended) The composition of claim 1, wherein said polyorganosiloxane comprises $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ $\{(\text{CH}_3)_3\text{SiO}_{0.5}\}$ units in an amount in a range between of from about 2.5 mol% and to about 5 mol%.

Claim 6. (Original) The composition of claim 1, wherein said polyorganosiloxane is a reaction product of a non-cyclic, vinylsiloxane fluid and an organohydrogensiloxane crosslinker.

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Claim 7. (Currently amended) The composition of claim 6, wherein said polyorganosiloxane is a reaction product of a non-cyclic, vinylsiloxane fluid and an organohydrogensiloxane crosslinker in a ratio to provide SiH in an amount in a range ~~between of from~~ about 0.2 moles ~~and to~~ about 5.0 moles per mole of vinyl-siloxane functionality.

Claim 8. (Currently amended) The composition of claim 6, wherein said polyorganosiloxane is a reaction product of a non-cyclic, vinylsiloxane fluid and an organohydrogensiloxane crosslinker in a ratio to provide SiH in an amount in a range ~~between of from~~ about 0.75 moles ~~and to~~ about 2.5 moles per mole of vinyl-siloxane functionality.

Claim 9. (Currently amended) The composition of claim 6, wherein said polyorganosiloxane is a reaction product of a non-cyclic, vinylsiloxane fluid and an organohydrogensiloxane crosslinker in a ratio to provide SiH in an amount in a range ~~between of from~~ about 1.0 moles ~~and to~~ about 1.5 moles per mole of vinyl-siloxane functionality.

Claim 10. (Currently amended) The composition of claim 1, wherein said polyorganosiloxane is a reaction product of a curable composition comprising a non-cyclic, vinylsiloxane fluid, an organohydrogensiloxane crosslinker and a filler in an amount in a range ~~between of from~~ about 5 ~~and to~~ about 100 parts by weight based on 100 parts by weight of the vinylsiloxane fluid.

Claim 11. (Currently amended) The composition of claim 10, wherein said filler is selected from the group consisting of fumed silica, precipitated silica and mixtures thereof.

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Claim 12. (Original) The composition of claim 10, wherein said curable composition comprises less than 50 parts by weight of filler per 100 parts by weight of the vinylsiloxane fluid.

Claim 13. (Original) The composition of claim 10, wherein said curable composition comprises an extending or reinforcing filler selected from the group consisting of titanium dioxide, lithopone, zinc oxide, zirconium silicate, silica aerogel, iron oxide, diatomaceous earth, calcium carbonate, silazane treated silicas, glass fiber, magnesium oxide, chromic oxide, zirconium oxide, aluminum oxide, alpha quartz, calcined clay, carbon, graphite, and synthetic fiber.

Claim 14. (Original) The composition of claim 10, wherein said polyorganosiloxane is a reaction product of a non-cyclic, vinylsiloxane fluid and an organohydrogensiloxane crosslinker cured in the presence of a platinum catalyst to form an elastomeric material.

Claim 15. (Currently amended) The composition of claim 10, wherein said vinylsiloxane fluid comprises vinylsiloxy units in an amount in a range ~~between~~ of from about 0.05 mol% ~~and to~~ about 3.5 mol% based on the total moles of condensed organosiloxy units in the vinylsiloxane.

Claim 16. (Currently amended) The composition of claim 10, wherein said vinylsiloxane fluid comprises vinylsiloxy units in an amount in a range ~~between~~ of from about 0.1 mol% ~~and to~~ about 3 mol% based on the total moles of condensed organosiloxy units in the vinylsiloxane.

Claim 17. (Currently amended) The composition of claim 10 wherein said vinylsiloxane fluid comprises vinylsiloxy units in an amount in a range ~~between~~ of from

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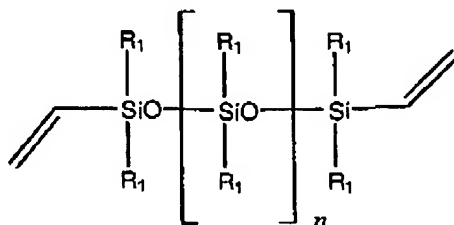
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about 0.14 mol% ~~and to~~ about 2 mol% based on the total moles of condensed organosiloxy units in the vinylsiloxane.

Claim 18. (Currently amended) The composition of claim 10, wherein said vinylsiloxane fluid comprises:



where n is a positive integer ~~of having a value such that to provide~~ a viscosity of the composition in a range between about 100 centipoise and about 200,000 centipoise at 25 °C, and each R₁ is a monovalent hydrocarbon radical selected from the group consisting of alkyl radicals, aryl radicals, aralkyl radicals, alkenyl radicals, halogenated derivatives of said radicals, and cyanoalkyl radicals.

Claim 19. (Currently amended) The composition of claim 18, wherein said R₁ is an alkyl radical having an amount of carbon atoms in a range ~~between~~ of from 1 and to 8.

Claim 20. (Currently amended) The composition of claim 10, wherein said organohydrogensiloxane crosslinker comprises chemically combined hydrogen attached to silicon in an amount in a range ~~between~~ of from about 0.2 moles ~~and to~~ about 5.0 moles per mole of vinyl-siloxane functionality.

Claim 21. (Currently amended) The composition of claim 10, wherein said organohydrogensiloxane crosslinker comprises chemically combined hydrogen attached to silicon in an amount in a range ~~between~~ of from about 0.75 moles ~~and to~~ about 2.5 moles per mole of vinyl-siloxane functionality.

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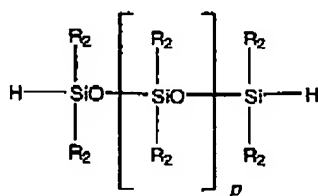
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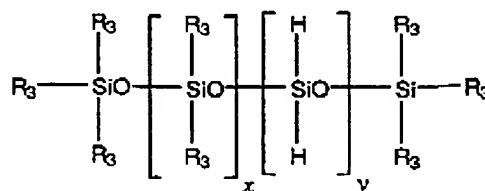
Claim 22. (Currently amended) The composition of claim 10, wherein said organohydrogensiloxane crosslinker comprises chemically combined hydrogen attached to silicon in an amount in a range between of from about 1.0 moles and to about 1.5 moles per mole of vinyl-siloxane functionality.

Claim 23. (Currently amended) The composition of claim 10, wherein said organohydrogensiloxane crosslinker comprises:

(2) or (3):



(2)



(3)

where p is a positive integer of a value to provide a viscosity in a range between of from about 1 centipoise and to about 1,000 centipoise at 25 °C, x and y are positive integers of sufficient value to provide a viscosity in a range between of from about 1 centipoise and to about 1,000 centipoise at 25 °C, and wherein R₂ and R₃ represent the same or different monovalent hydrocarbon radicals free of olefinic unsaturation and is selected from the group consisting of an alkyl radical, aryl radical, aralkyl radical, halogenated derivative of said radicals and a cyanoalkyl radical.

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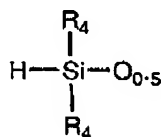
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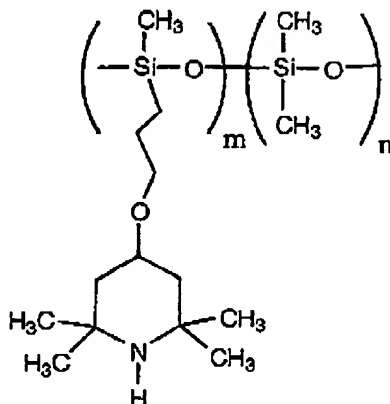
Claim 24. (Currently amended) The composition of claim 10, wherein said organohydrogensiloxane crosslinker comprises the units:



chemically combined with SiO_2 where the ratio of $(R_4 + H)$ to Si varies is in a range ~~between of from~~ about 1.0 ~~and to~~ about 2.7, wherein R_4 represents the same or different monovalent hydrocarbon radical free of olefinic unsaturation and is selected from the group consisting of an alkyl radical, aryl radical, aralkyl radical, halogenated derivatives of said radicals and a cyanoalkyl radical.

Claim 25. (Currently amended) The composition of claim 24, wherein said alkyl radical comprises an amount of carbon atoms in a range ~~between of from~~ 1 and to 13.

Claim 26. (Original) The composition of claim 1, wherein said hindered amine light stabilizer is represented by the formula



where n is 0 or any integer, and m represents an integer greater than 3.

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Claim 27. (Original) The composition of claim 26, wherein the methylsiloxane moiety forms a cyclic ring.

Claim 28. (Original) The composition of claim 27, wherein the methylsiloxane moiety forms a cyclic tetramer where $m=4$ and $n=0$ or forms an octamer where $m=8$ and $n=0$.

Claim 29. (Original) The composition of claim 26, wherein the methylsiloxane moiety forms a linear chain with trimethylsiloxane end groups.

Claim 30. (Currently amended) The composition of claim 1, comprising said hindered amine light stabilizer in a range ~~between~~ of from about 0.05 weight % ~~and to~~ about 10 weight %.

Claim 31. (Currently amended) The composition of claim 1, comprising said hindered amine light stabilizer in an amount in a range ~~between~~ of from about 0.1 weight % ~~and to~~ about 5 weight %.

Claim 32. (Currently amended) The composition of claim 1, comprising said hindered amine light stabilizer in an amount in a range ~~between~~ of from about 0.25 weight % ~~and to~~ about 1 weight %.

Claim 33. (Currently amended) A thermally stable composition comprising:
a polyorganosiloxane modified HALS; and
a polyorganosiloxane that is free from ~~of~~ alternating cyclic hydrocarbon residues.

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